Seven Thousand Struck Down Last Year at Crossings Inspires Reform.

The growing demand for wider and safer roads and stronger bridges has wakened the officers and directors of the American Road Builders' Associa tion to the need for action and the program committee has provided for an exhaustive discussion of the subject at the Twelfth American Good Roads Congress and Thirteenth Na-

Roads Congress and Thirteenth National Good Roads Show to be held in Chicago January 16 to 26.

The elimination of grade crossings will be one of the phases considered. Out of 12,000 persons killed on the highways of the country last year, 7,000 were struck down at grade crossings. Investigation has shown also that one motorist in every three is careless at grade crossings, appoaching the railroad tracks at reckless speed and without taking due notice of approaching trains.

Railroad Sufferers.

Railroad Sufferers. The Pennsylvania and Southern Pa-The Pennsylvania and Southern Pacific railroads, especially, have been heavy sufferers from grade crossing with General Motors.

automobile owners blance facturer for engine troubles which and in New York city where he was with General Motors. heavy sufferers from grade crossing with General Motors.

accidents. On the Southern Pacific The New York Tire and Rubber sold for engine use.

The New York Tire and Rubber sold for engine use.

The turbulator starts to function the past three years for Miller Tires at 1115. cases, or more than 20 per cent, the for vulcanizing and repairing have junction motorists deliberately ran into the trains. In 122 instances automobiles Restifo, president, and V. M. Teano. isation. plunged through the crossing gates. Nine crossing fingmen were struck

In 970 cases in which motorists ran in front of the trains 136 persons were killed and 405 were injured. In 490 cases motor cars stalled on the crossing and were demolished. Forty-three cars actually collided with the danger signals.

An investigation conducted recently by the Maryland State Roads Commission demonstrated that most high.

The turbulator, a device which

mission demonstrated that most highof road instead of at the curves and are due to speeding or reckless driv-ing, rather than skidding.

Insurance Companies Pay.

on the experiences of St. Louis, Cleveland, New York, Chicago and other cities for the first six months of 1921 experts estimate that this year's fa-talities on the highways will reach

on New York State roads and city streets during the first six months this year. Of this number 403 met their death in New York city.

At a recent drawing of space for the good roads show in Chicago 95 per cent of the 40,000 square feet of space was taken, creaking all records and necessitating the use of additional buildings to house the exhibits. Approximately \$1,500,000 worth on New York State roads and city

TIRES UNCARED FOR **WEAR OUT IN GARAGE**

Water, Oil, and Rust Are Greater Enemies Than Use. Sellers Say.

An inspection of crippled tires in the collection of any repairman will reveal the fact that a larger per centage of the trouble comes from neglect in the garage at home. If stones, ruts and road roughness were the only things that were out tires repair bills would be cut in half.

Water, oil, grease and light—rubber's worst enemies—work in a garage more actively than on the road. In washing the car, the rims are liable to become rusty and eat away the tire. A coat of praphits or common stove polish will prevent this and keep the tire from creeping.

Oil or grease should never be allowed to stand on a garage floor. Fmall cuts or bruises on the tire surface say Miller tire men, should be repaired at once, If a tire has been smeared with grease, it should be washed theroughly with cold water and a little scap.

The spare tire is often forgotten while the other tires are giving good service, and neglect sometimes causes it to deteriorate rapidly. Always it should be protected from rain, sun and dirt by a cover. Once in a while, change it with one of the tires on the car, so that the rubber will not harden from disuse,

from disuse,
The weight of the car should never
be left on a deflated tire. Such treatment is as had as running on a flat
tire and is certain to crack the
carcasa. Jack up the wheel, or take
off the tire entirely.

Saving Power,
Because bearings turn harder in cold weather it is advisable when starting the engine of a car to retard the spark, open the throttle about a quarter and throw out the clutch. This releases some of the load on the starter and saves an unimited quantity of electrical current.

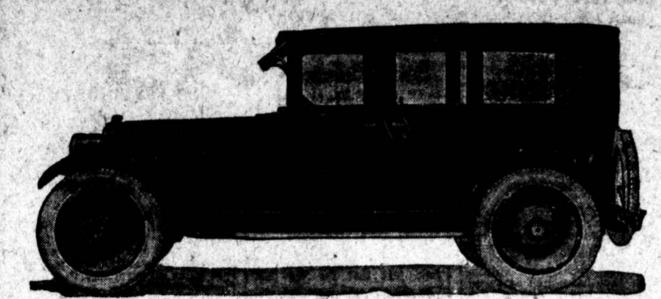
Boits, those which hold the engine in place, when lose, may cause mis-alignment of the power plant, resulting in serious trouble. If there is even a slight looseness of the boits, it may permit the motor support to hammer and pound, and in time the supporting arm may be actually fractured.

Suppress Them.

Abnormal noises in the car should be a warning. If it is a squeak, locate the cause and lubsicate the part. If caused by loose parts, locate them and tighten the bolts.

ong and Short Wheel Bases, ecause of the increased length of rage and centrifugal force, a car a a long wheel base is more likely

THE RICKENBACKER SEDAN



AROUND THE TOWN

B. Alcorn, formerly with the Distributing Company, has the sales force of the Powell greatest discovery of the age. It is a revelation to engine and automobile B. Alcorn, formerly with the Motor Agency, Elgin and Elkhart representative, at Fourteenth street

Mr. Alcorn has considerable motor

Maryland State Roads Com-demonstrated that most high-cidents occur on long stretches instead of at the curves and the goods for Ford owners who have

given it a trial.

The manufacturers claim that this A total of \$4,500,000 was paid out to which motors are subject by so in death claims by American insurance companies for the 12,000 persons

Lilled on the highways lest year. In device will prevent many of the illa

killed on the highways last year. In addition to the fatalities there were 1,500,000 non-fatal injuries.

Automobile fatalities in 1918 were 9,542. In 1919 the number increased to 9,826. Considering the 12,000 accidents last year and basing their calculations on the experiences of St Levis Clary. buretion engineers in America, Wil-liam A. Edwards. For years Mr. Ed-wards was a research and designing buretor Company, who manufacture two of the most widely used car-buretors in the word. He was also a research and designing engineer of the Stewart Warner Speedometer Corporation.

His sensational discovery-the Turbulator—was perfected after sever years of research work to increase

hibits. Approximately \$1,500,000 worth of labor-saving road machinery and appliances will be exhibited. cent constantly creates carbon deposit

The Turbulator has solved the prob-lem of turning this 17 per cent waste and trouble-maker into real live

manufacturers and owners.

Practically 90 per cent of all engine trouble is caused by the inferior quality of present day gasoline. Most automobile owners blame the manufacturers

1,909 motors cars and trucks were wrecked at grade crossings. In 490 cases, or more than 20 per cent, the motorists deliberately ran into the motorists deliberately ran into the Restife, president, and V. M. Teans. Restifo, president, and V. M. Teano. isation. Such action breaks up all heavy globules in gasoline and turns them of extensive automotive experience and will meet with substantial success with the popular Miller line.

street and by the A. B. C. Motor Com-pany, 617 New York avenue north-

Overcoming Rusted Fenders. The common cause of fenders rust ing at the fastenings is neglect in not washing the under side of the fenders, which are sure to accumulate certain amount of dirt and mud. A rust preventive, or an application of oil will aid in preventing this condi-tion, but the most reliable precaution is to prevent the accumulation of mud.

Clutch Trouble.

One of the most common plaints among car owners is the im-proper action of the clutch. The clutch throwout collar needs constant lubrication and in many care failure to give this unit attention even for a single day may mean

Ignation in Cylinders. In a gasoline engine, ignation ec-curs a few degrees before the piston reaches top dead center on the com-Turbulators are on sale at the Ray reaches top dea field Service Station, 1119 Fourteenth pression stroke.

CHEVROLET

"For Economical Transportation

The lowest priced fully equipped car in America

Chevrolet "Four-Ninety" Models

Models Touring Car or Roadster. \$525 Touring Car or Boadster. \$975

Light Delivery Wagon (one seat) \$525 All Prices F. O. B. Flint, Mich.

Barry-Pate Motor Company, Inc.

FINAL REDUCTION

Effective at once

5-passenger Touring\$1295 2-passenger Roadster 1345 f. o. b. factory

118-inch Wheelbase, Valve-in-head Motor, Cord tires

These are rock bottem prices. Compare the specifications-Then Compare the price.

POWELL MOTOR AGENCY 1821 14th St. N. W. Phone North 9212



Wills-Sainte Chaire cars, now being inspected for the first time by visitors at the automobile shows, attracted instant attention when they arrived on the market less than a year ago, because they were the first independent offering of C. Harold Wills and because they were known to embody a store or more of innovations, the use of Molybednum steel, for instance.

These new practices in automotive design and construction made interesting and convincing reading. The all-important question of performance, however, was a matter that could however, was a matter that could only be illuminated by actual trials on the road. During the last six months the road. During the last six months the car has figured in a number of road runs and cross-country flights so spectacular in nature and results that Mr Wills' creation seems to have thoroughly demonstrated that its performing powers and its roadability are of an exceptional order.

One of the first and most sensational runs was from Detroit to New

MILLS ST. CLARE CAR

MAKES NEW RECORDS

MAKES NEW RECORDS

MAKES NEW RECORDS

Runs From Detroit to New York

In Less Than One

Day.

Wills-Sainte Claire cars, now being inspected for the first time by visitors at the automobile shows, attracted instant attention when they arrived on the market less than a year ago, because they were the first independent. the world and motorists who make one way in the time it took the Wills-Sainte Claire to cover the round trip

consider they have done a very creditable job.

Still another spectacular perform-ance was a run from New York to Boston and return. This was made in the same car Mr. Wills used in the Detroit-New York trip: No ad-justments were necessary. The total elapsed time from New York to Boston and return was eleven hours and forty-seven minutes.

To Clean Reflectors. Headlights reflectors become easily

scratched. To polish them clean tional runs was from Detroit to New Without rubbing, and then polish with York in a day. Mr. Wills did all the rouge, as is used by jewelers, apply-driving on this trip, although he is ing rotary motion. Because of the not and never has been a professional silver plates, do not rub hard. Announcing the Opening of

The New York Tire & Rubber Co., Inc.

-1115 Fourteenth Street Northwest

Retail Sales and Service Station for

Miller Tires

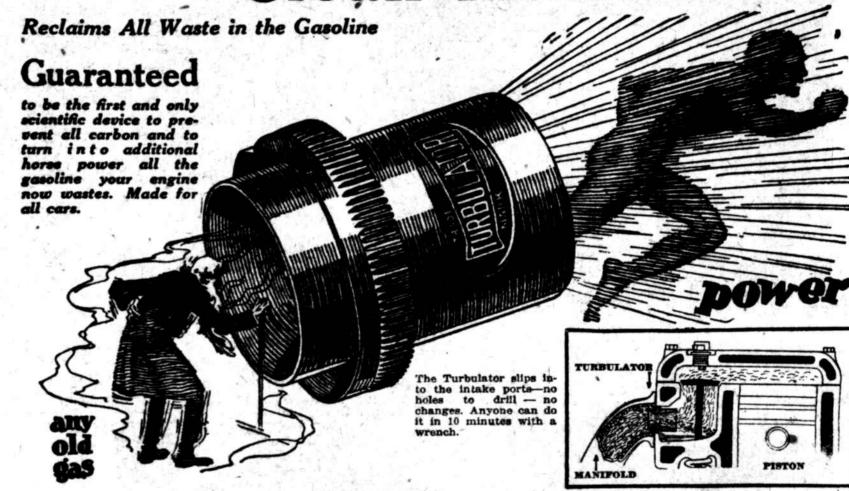
Geared to the Road

T. C. RESTIFO, Pres. V. M. TEANO, Mgr.

TWO DOORS ABOVE MILLER FACTORY BRANCH

Are You Keeping Up With The Times?

Keeps Your Ford Engine Clean Inside



The Turbulator

"Works while you ride"

The Sensation of the Motor World Over 80% of all your motor troubles are due to present day gasoline. Automotive engineers and carburetor manufacturers admit this. Until the sensational discovery of the Turbulator made by W. A. Edwards, one of the foremost Carburetion Engineers, no device was ever made that could put a stop to this appalling waste and trouble. Fouled spark plugs, carboned pistons, sooty valves, dirty combustion chambers, worn bearings, scored cylinders, diluted oil, hard starting, are now banished forever. The Turbulator will keep your Ford engine absolutely clean inside.

Nothing Else Like It

The Turbulator is not an air-bleed, spark intensifier or vapor injector. It is utterly unlike all so-called economizers, fuel adulterants and make-shift devices. It is strictly a scientific device for handling gasoline. The Turbulator is a revolutionary patented improvement, de-

signed by the very man who helped design the two biggest selling carburetors in America. He knows that no carburetor today can utilize more than 75% to 80% of present-day

gasoline, because practically 17% is kero-sene and other unrefined oil. It is this unburned fuel, which your engine absolutely wastes, that the Turbulator traps and breaks up into highly combustible gas. It makes POWER out of waste—stops the trouble and money leaks,

fore. It has always made a poor engine good, and the best engine better. Results have always been a carbon-free engine, added power,

Dynamometer tests made at the Armour Institute of Technology, Chicago, on the Institute's own Ford engine equipped with Turbulators, showed remarkable increase in horse power, torque and gasoline economy. Numerous road tests prove that the Turbulators are the greatest improvement ever made for any engine.

The Turbulator has never failed to give any Ford more power and zip than it ever had be-

freedom from metor trouble, and easy Authentic Test at Armour Institute Proves starting in coldest Merit of the Turbulators. weather. Because of this wonderful record we are willing to place a pair of the

> Ford on 10 days' trial. If, at the end of that time you are not more than satisfied with the marvelous results, every penny of your \$5 deposit will be promptly refunded. We take all the risk because there is no risk. Drive your Ford to our Service Station mentioned below and have a pair installed. Make your Ford engine stay clean inside.

Turbulators in your

You Notice the Difference

the First 500 Feet

Before you slip your Turbulators into your

Ford, look at your spark plugs. Note how caked with carbon, how oily and sooty they are. Then put them back—just as they are—soot and all. Then put in the Turbulators. You

notice the difference at once. Smoother riding, snappier pick-up, more power! After a few hours' riding look at your spark plugs. They're

clean as a hound's tooth. Valves and combus-

tion chambers are soon cleaned up. Carbon is

gone-never to come back. Your engine gets

100% benefit from the lubricating oil, because it can't become diluted. It is no longer necessary to spend money for removing carbon,

Special 10 Days' Trial Offer

grinding valves, reboring cylinders, etc.

Out-of-Town Ford Owners, Satisfy Yourself at Our Risk

If you cannot drive in to service stations mentioned below, send \$5 today and you will receive by return mail, all charges postpaid, a pair of Turbulators, ready to install in a few minutes. You can do it easily with a wrench—no holes to drill—no changes. Get rid of your motor treubles forever. If you are not satisfied after 10 days' trial, return the Turbulators and your full \$5 will be promptly refunded. Mail your check or a \$5 bill today.

THE TURBULATOR CORPORATION, 2635 S. Michigan Ave., Chicago

Drive Your Ford to Our Service Stations A. B. C. MOTOR COMPANY RAYFIELD SERVICE STATION 617 New York Avenue N. W. 1119 Fourteenth Street N. W.

Eats Off Carbon, Keeps It Off





How It Works and Why

If you throw coal in hump form on a fire, combustion is slow. But if you throw on finely powdered coal, it explodes. It is the air around each particle that causes instant combustion. 17% of your gasoline reaches the motor in globules (like lumps of coal). The Turbulator, by introducing turbulance in a scientific sulance in a scientific way breaks up these thobules, and complete guitton results.

> Ford Dealers

The Turbulators are the greatest trade build-ers ever sold. Every Ford owner in the coun-try needs a pair. We want dealers everywhere to handle the trade Write or wire for literature describing our spa-cial dealers' proposition.